#9/Rettoge 5/13/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re Application of

Atty. Docket

JEFFREY A. CHAPMAN ET AL.

GB 000166

Serial No. 09/998,032

Group Art Unit: 28719

201201 1101 02,220,000

Examiner:

Filed: NOVEMBER 29, 2001

Title: PIXELLATED DEVICES SUCH AS ACTIVE MATRIX LIQUID CRYSTAL

DISPLAYS

Commissioner of Patents, Washington, D.C. 20231

#### LETTER

Sir:

Pursuant to the duty of disclosure set forth in 37 CFR 1.56, Applicant calls to the attention of the Patent and Trademark Office a Search Report issued abroad in reference to a corresponding foreign application. A copy of the Search Report dated DECEMBER 13, 2002 is attached.

The enclosed document is being called to the attention of the Patent and Trademark Office solely to comply with the duty of disclosure set forth in 37 CFR 1.56 and is not intended to be construed as an admission by the Applicant that any of the documents listed is material.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

Pate:

2003

Bv:

Respectfully submitted,

Eric M. Bram, Reg. 37,285

Attorney

Encl. Search Report

ÉRNATIONAL SEARCHING AUTHORITY

NOTIFICATION OF TRANSMITTAL OF

THE INTERNATIONAL SEARCH REPORT

OR THE DECLARATION

INTERNATIONAAL OCTROOIBUREAU B.V. Attn. Scott, Kevin J.

Prof. Holstlaan 6 NL-5656 AA Eindhoven **NETHERLANDS** 

(PCT Rule 44.1)

Date of mailing (day/month/year)

13/12/2002

Applicant's or agent's tile reference

PHGB010166W0

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/IB 02/04258

International filing date (day/month/year)

10/10/2002

**Applicant** 

KONINKLIJKE PHILIPS ELECTRONICS N.V.

1. X The applicant is hereby notitied that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the

International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that ettect is transmitted herewith.

With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to torward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made: য়

4. Further action(s): The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations tor international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be tiled it the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswljk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Carina Bergstr<sup>^</sup>m

Authorized officer

Form PCT/ISA/220 (July 1998)

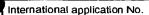


## PCT

#### **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PHGB010166W0		f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IB 02/04258	10/10/2002	19/10/2001
Applicant		
KONINKLIJKE PHILIPS ELECT	RONICS N.V.	
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists  X  It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.
Basis of the report		
a. With regard to the language, the language in which it was filed, unl	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the
Authority (Rule 23.1(b)).	ras carried out on the basis of a translation of the	
With regard to any <b>nucleotide an</b> was carried out on the basis of the		ternational application, the International search
l — —	onal application in written form.	
filed together with the inte	rnational application in computer readable form	n.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	
	osequently furnished written sequence listing d is filed has been furnished.	oes not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable form is	s identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac		
	,	
4. With regard to the <b>title</b> ,		
the text is approved as su	bmitted by the applicant.	
=	hed by this Authority to read as follows:	
	-	
5. With regard to the abstract,		
the text is approved as su	, , , ,	ty as it appears in Poy III. The applicant may
within one month from the	shed, according to Rule 38.2(b), by this Authorical date of mailing of this international search rep	port, submit comments to this Authority.
6. The figure of the <b>drawings</b> to be pub	lished with the abstract is Figure No.	1
as suggested by the appl		None of the figures.
because the applicant fail		
1 =	characterizes the invention.	





#### INTERNATIONAL SEARCH REPORT

PCT/IB 02/04258

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A method of selecting a combination of transmit antennas (TA1 to TA4) and receive antennas (RA1 to RA4) in a MIMO antenna system to give the best isolation from adjacent parallel signal streams comprises transmitting a first signal from one of the transmit antennas and measuring a quality metric, for example signal strength, of the received signal at each of the receive antennas. The process is repeated using signals transmitted in turn by each the remaining transmit antennas. A channel matrix is compiled of the transmit antennas versus the receive antennas and a selection is made of a combination of transmit and receive antennas receiving acceptably a first signal and unacceptably a second signal and vice versa. The selected combination is used to send and receive MIMO signals.

# INTERNATIONAL SEARCH REPORT

ernational Application No PCT/IB 02/04258

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER H04B7/06 'H04B7/08		
According to	o International Patent Classification (IPC) or to both national classitic	ation and IPC	
	SEARCHED		
	ocumentation searched (classification system followed by classification	ion symbols)	·
	tion searched other than minimum documentation to the extent that s		
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms used)	
EPO-In	ternal, WPI Data, PAJ, INSPEC		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.
A	US 6 144 711 A (POLLACK MICHAEL A ET AL) 7 November 2000 (2000-11-07) abstract column 1, line 65 -column 2, line 43		1,2,8, 11-14
Α	WO 01 78220 A (KATZ MARCOS ;NOKIA (FI); YLITALO JUHA (FI)) 18 October 2001 (2001-10-18) abstract paragraphs '0007!-'0011!		1,2,8, 11-14
Furt	her documents are listed in the continuation of box C.	χ Patent family members are listed i	n annex.
"A" docume consider artier of filing of the citation of the ci	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filling date but	<ul> <li>*T* later document published after the interest or priority date and not in conflict with a cited to understand the principle or the invention</li> <li>*X* document of particular relevance; the cleannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cleannot be considered to involve an inventive action in the art.</li> <li>*X* document member of the same patent for the confliction of the same patent for the confliction.</li> </ul>	the application but cory underlying the laimed invention be considered to comment is taken alone aimed invention rentive step when the re other such docusis to a person skilled
	han the priority date claimed	<u> </u>	
	actual completion of the international search  December 2002	Date of mailing of the international sea	тсп героп
		Authorized officer	
Name and I	mailing a ddress of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Lustrini, D	

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### INTERNATIONAL SEARCH REPORT

invormation on patent family members

ernational Application No PCT/IB 02/04258

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		WO 9809381	A1 05-03 <b>-</b> 1998
		WO 9809395	A1 05-03-1998
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		WO 0178220	A1 18-10-2001